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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/004,732	11/09/2001		John Matthew Swoyer	P-10110.00	8088
27581	7590	06/16/2005		EXAMINER	
MEDTRONIC, INC.				. BRADFORD, RODERICK D	
710 MEDTR	ONIC PA	RKWAY NE		1	
MS-LC340			•	ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55432-5604				3762	

DATE MAILED: 06/16/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/004,732	SWOYER ET AL.					
Office Action Summary	Examiner	Art Unit .					
•	Roderick Bradford	3762					
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence ad	dress				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some and patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a in. a reply within the statutory minimum of thir eriod will apply and will expire SIX (6) MON statute, cause the application to become Al	eply be timely filed ty (30) days will be considered timel ITHS from the mailing date of this of BANDONED (35 U.S.C. § 133).					
Status		:					
1) Responsive to communication(s) filed on 6	03 February 2005.	! }					
	This action is non-final.	:					
<i>'</i> =	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ⊠ Claim(s) 1-20 and 33-36 is/are pending in 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-20 and 33-36 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction a	ndrawn from consideration.						
Application Papers							
9) The specification is objected to by the Exam 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11) The oath or declaration is objected to by the	accepted or b) objected to the drawing(s) be held in abeyand or rection is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 C					
Priority under 35 U.S.C. § 119		:					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority documents. 2. Certified copies of the priority documents. 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a second content.	nents have been received. nents have been received in A priority documents have been ureau (PCT Rule 17.2(a)).	Application No received in this National	Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(Summary (PTO-413) s)/Mail Date nformal Patent Application (PTG	0.152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/Si Paper No(s)/Mail Date	6) Other:		O-132)				

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed on February 3, 2005 have been fully considered but they are not persuasive.

Applicant argues that the electrode structure of Kroll does not meet the claim limitation since Kroll only contains one electrode. However this is not persuasive since the claim states P electrodes. In this case the examiner considers P to be 1. Also, the Applicant states that in the disclosure and the claims that in the electrode array includes more than one electrode. However this is not persuasive since claim 10 states that P=1.

Claim Rejections – 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1, 3-8, 11, 13-18, 20, 33 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Kroll et al. U.S. Patent No. 5,257,634.

Referring to claims 1, 11, 33 and 35, Kroll discloses a medical electrical lead for electrical stimulation of body tissue adapted to be introduced through and released into the body employing an introducer having an introducer lumen comprising:

• A lead body extending between lead proximal and distal ends

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- P proximal connector elements formed in a connector array in a proximally segment of the lead body (29)
- P stimulation electrodes arranged in an electrode array extending proximally from the lead distal end through a distal segment of the lead body (FIG. 3)
- A plurality of M tine elements formed in a tine array extending through a segment of the lead proximal to the electrode array, each tine element comprising N flexible, pliant, tines, each tine having a tine width and thickness and extending through a tine length from an attached tine end to a free tine end, the attached tine end attached to the lead body from a tine attachment site and supporting the tine extending outwardly of the lead body and proximally toward the lead proximal end (FIG. 3), whereby M x N tines are adapted to be folded inward against the lead body when fitted and constrained by the lumen of an introducer without overlapping one another and deploy outward to engage body tissue when the introducer is withdrawn proximally and release the tines to inhibit axial dislodgement of P stimulation electrodes (column 3, lines 52-62).

Referring to claims 3 and 13, wherein the tines of the tine elements are formed of a flexible implantable grade superelastic alloy (column 4, lines 25-29).

Referring to claims 4 and 14, wherein the tine attachment sites of the M tine

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elements are separated longitudinally along the lead body in the tine element array by a distance that is substantially equal to or exceeds the tine length when folded proximally against the lead body so that the tines are not overlapping (FIG. 7).

Referring to claims 5 and 15, wherein the tine attachment sites of each of the M tine are disposed in a common circumference of the lead body, offset from one another around the common circumference such that the tine free ends of the tines of each adjacent tine element engage against body tissue at a radially and axially separated points along the tine element array (FIG. 6).

Referring to claims 6 and 16, wherein the tine lengths and the tine widths are selected to enable the more distal N tines of more distal tine elements of the tine element array to be folded proximally alongside and interleaved with the adjacent more proximal tines of more proximal tine elements (FIG. 8).

Referring to claims 7, 8, 17 and 18, wherein N tines of the M tine elements are equal in number (FIG. 3).

Referring to claims 10 and 20, wherein P=1 (FIG. 3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

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the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

6. Claims 2 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kroll et al. U.S. Patent No. 5,257,634.

Referring to claims 2 and 12, Kroll discloses the claimed invention except for wherein the tines of the tine elements are formed of a flexible bio-compatible plastic selected from the group consisting of medical grade polyurethane compounds and silicone rubber compounds. It would have been obvious matter of design choice to one skilled in the art to modify the system and teachings of Kroll to have tines that are formed of a flexible bio-compatible plastic selected from the group consisting of medical grade polyurethane compounds and silicone rubber compounds, since the applicant does not disclose that tines formed of a flexible bio-compatible plastic provides any criticality and/or unexpected results and it appears that the invention would perform equally well with any tines, such as the tines as taught by Kroll as a means of placing tines in the body.

7. Claims 9 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kroll et al. U.S. Patent No. 5,257,634 in view of Bush et al. U.S. Patent No. 5,282,845.

Referring to claims 9 and 19, Kroll fails to disclose wherein P > 1, and at least on

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the P stimulation electrodes comprises an elongated, flexible electrode adapted to assume a curve when implanted in relation to the body. However, Bush discloses wherein P > 1, and at least on the P stimulation electrodes comprises an elongated, flexible electrode adapted to assume a curve when implanted in relation to the body (FIG. 1) as a means to more easily stimulate different body tissue.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the teaching of Kroll to include wherein P > 1, and at least on the P stimulation electrodes comprises an elongated, flexible electrode adapted to assume a curve when implanted in relation to the body, as taught by Bush, as a means to more easily stimulate different body tissue.

8. Claims 34 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kroll et al. U.S. Patent No. 5,257,634 in view of Borkan et al. U.S. Patent No. 6,510,347.

Referring to claims 34 and 36, Kroll fails to disclose wherein the lead body further comprises a second proximal connector element, a ring shaped electrode spaced apart proximally from the distal wire coil electrode, and a second lead conductor extending between the second proximal element and the distal ring shaped electrode. However, Borkan discloses wherein the lead body further comprises a second proximal connector element, a ring shaped electrode spaced apart proximally from the distal wire coil electrode, and a second lead conductor extending between the second proximal element and the distal ring shaped electrode (column 4, lines 46-55 and column 5, lines

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48-56) as a means to ensure efficient power is being provided to each of the stimulation electrodes.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the teachings of Kroll to include wherein the lead body further comprises a second proximal connector element, a ring shaped electrode spaced apart proximally from the distal wire coil electrode, and a second lead conductor extending between the second proximal element and the distal ring shaped electrode, as taught Borkan, as a means to ensure efficient power is being provided to each of the stimulation electrodes.

Conclusion

9. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Roderick Bradford whose telephone number is (703) 305-3287. The examiner can normally be reached on Monday - Friday 7 a.m. - 4 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0858.

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ANGELA D. SYKES SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3700

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